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| <div>NASA Glenn Research Center</div> <div>Scoring Methodology for Environmentally Preferable Products</div> <div><div><div></div><div></div><div></div><div></div></div><div><div>= Affirmative Procurement (recycled content or biobased)</div><div>= Contains moderate amount of "red" chemicals, mod TRI, RCRA flam/corrosive</div><div>= Contains higher amount of HAP, certain RCRA, CERCLA, less mod SARA (TRI) chemicals, petroleum product (mining & nonrenewable)</div></div></div> | | | | | | | | | | | | | - Sodium percarbonate (oxygen bleach based on hydrogen peroxide) is non-toxic. Removes organic stains from fabrics and nearly any surface. Deodorizes. Biodegradable with no harmful by-products. - Sodium percarbonate is made of borax - has no negative impact on soil quality. - Sodium percarbonate disinfects - bacteria and viruses. - pH over 9.5 or under 5.5 can cause a problem in sewer structures (corrosion), but short flows are acceptable. | - Sodium carbonate decomposed from sodium percarbonate increases the pH in, reducing the activities of calcium ion and magnesium ion, and so it softens water. | |
| | | | | | | | | | | | | | Toilet bowl cleaner | | |
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| Product | Manufacturer | Env'l Issues | OSHA listed | T=Tested by GRC | | Biodegradable | Non-toxic | Recyclable container | Lye (sodium hydroxide), phosphorus/phosphate s, mineral acids, HCl, chlorine, petroleum, enzymes, clays | Harsh scents/fumes/vapors | Gentle to surfaces | pH | Septic tank / grey-water system safe (Doesn't eliminate needed septic bacteria) | Comments | Vendor links: |
| The Natural Clinging Toilet Bowl Cleaner | The Clean Environment Co | | | T | | Yes | May irritate eyes. Prolonged skin contact = sensitization. | Yes #2 | None | None | Yes | 1.6 +/- .5 | Yes | Mainly citric acid (including limonene), plus surfactant. Clings a bit, so good for whole bowl. Was slightly more effective than Earth Friendly (below). Citric smell, but not overpowering. Good for all bathroom surfaces. | Order: http://www.cleanenvironmentco.com/products/index.htm#8 MSDS: http://www.cleanenvironmentco.com/pdf/MN-8.pdf |
| Oxy-Flush | Natural Choices | | | T | | Yes | Can Irritate skin & eyes | Yes #2 | None | None | Yes | 10-10.5 | Yes | Sodium percarbonate 30-50%, sodium carbonate 40-50%. High pH from soda ash. Most effective of the 3 listed here for tough jobs - but for bowl up to water line only. Product not formulated to cling - it foams slightly in water. | Order: http://www.oxyboost.com/ MSDS on S.Drive |
| Toilet Bowl Cleaner | Earth Friendly Products | | | T | | Yes | Can Irritate skin & eyes | Yes #2 | None | None | Yes | 2.0-3.0 | Yes | Cedar oil, citric acid, xanthan gum, coconut oil-derived surfactant. Most "natural". Very good thick "cling" (may need to manually spread for wider coverage) - good for whole bowl. Good for all bathroom surfaces. Effective. | Order: http://www.ecos.com MSDS: http://www.ecos.com/NEWSITE/pages/specsub/toiletp.html |